BRUHAT BENGALURU MAHANAGARA PALIKE

YELAHANKA ZONE

NAME OF WORK : IMPROVEMENTS TO ROADS AND DRAINS AT HAROHALLI COLONY IN WARD NO.02 YELAHANKA SUB-DIVISION

								Estimate Cost Rs.	50.00	Lakhs
Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount	
1	KSRB 2-2.1 : Earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, No.5/Item No. 2.3)KPWD S.R 2016-17									
	Harohalli Colony	Cum								
	Main Road for Drain		2	256.00	1.00	1.00	512.00			
	for Culverts		3	6.00	1.65	1.30	38.61			
						Total Qty	**550.61**	200.34	**110309.2**	
	Basic Rate	189.00								
	Area Weightage @ 6%	11.34								
	Total	**200.34**								
2	KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregate /sand/kaner/ Moorum KSRRB M100-1 Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications MORTH -100/ Chapter 1 (Page No.133/ Item No 17.1)									
		Cum								
						Qty Vide Item No.1	**550.61**	100.00	**55061.00**	
	Average Weight of Earth 1.28 Tonne/Km									
	Basic Rate Lead Charges for 10.00 Kms (2.50X1.28X10.00)	32.00								
	Add loading and unloading Item No 17.1)	68.00								
	Total	100.00								
3	KSRB 4-1.3: Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregates @ 0.57cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No.KBS 4.1, 4.2 (P.12/I.4.3)									
	Harohalli Colony	Cum								
	Main Road for Drain		2	256.00	1.00	0.15	76.80			
	for Culverts		3	6.00	1.65	0.15	4.46			
						Total Qty	**81.26**	4976.70	**404381.76**	
	Basic Rate	4695.00								
	Area Weightage @ 6%	281.70								

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
	Total	**4976.70**							
4	KSRB 5.2.3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 (Page No. 23/ Item No. 5.6)								
		Cum							
	for culverts	2	3	6.00	0.60	1.00	21.60		
					Total Qty		**21.60**	4438.22	**95865.55**
	Basic Rate	4187.00							
	Area Weightage @ 6%	251.22							
	Total	**4438.22**							
5	KSRB 15.1.1: Providing **flush pointing** to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications.(Page No.112/Item No. 15.1)								
		Sqm							
	for Culverts	2	3	6.00		1.00	36.00		
					Total Qty		**36.00**	102.82	**3701.52**
	Basic Rate	97.00							
	Area Weightage @ 6%	5.82							
	Total	**102.82**							
6	KSRB 4-1.7 : Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs with 20mm and down size graded granite metal coarse aggregate @ 0.84cum and fine aggregate @ 0.56 cum machine mixed concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1.4.2.(P No. 13 / Item No.4.7)								
	for culverts	Cum							
	Coping	2	3	6.00	0.60	0.10	2.16		
	vent		3	6.00	0.60	0.10	1.08		
	Ramp		2	6.00	0.60	0.125	0.90		
					Total Qty		**4.14**	5598.92	**23179.53**
	Basic Rate	5282.00							
	Area Weightage @ 6%	316.92							
	Total	**5598.92**							

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
7	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC cement at 300kgs. with 20mm and down size granite metal coarse aggregates at 0.69cum and fine aggregates at 0.43cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No.1500, 1700, 2200. -do- Wall and bottom thickness 15cm (P.No.265 / It.No.37.59.2)								
	Main Road	Cum							
	bed		2	256.00	1.00	0.15	76.80		
	side wall		4	256.00	0.15	0.75	115.20		
						Total Qty	**192.00**	11032.48	**2118236.**
	Basic Rate	10408.00							
	Area Weightage @ 6%	624.48							
	Total	**11032.48**							
8	Providing & laying in position reinforced cement concrete of Design mix M20 with OPC cement @ 320kgs , with 20mm and down size graded granite metal,coarseaggregated @ 0.69cum ,and fine aggregated @ 0.460cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed -2008 machine mixed concrete laid in layers not exceeding 15 crns thick, vibrated for all works in foundation for footings,pedestals,retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts,struts, buttresses, bed blocks, anchor blocks, plinths etc.,including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications.specifications No.KBS 4.1,4.6 (P.No.13/ I.No.4.11)								
	culvert slab	Cum							
			3	6.00	1.50	0.23	6.21		
							6.21	6371.66	**39568.01**
	Basic Rate	6011.00							
	Area Weightage @ 6%	360.66							
	Total	**6371.66**							
9	KSRB 4.9.2:Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3-do-TMT Bars Fe 500 P.17/It.No.4.46.2 (rates effects from 01-07-2017)								
		tonne							
		60% of Qty Vide item No.7				in Qtl	115.200		
		80% of Qty Vide item No.8				in Qtl	4.968		
							120.168		
						in tonne	**12.0168**	64243.42	**772000.33**
	Basic Rate	60607.00							

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
	Area Weightage @ 6%	3636.42							
	Total	**64243.42**							
10	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.21 (P.15 / I.4.31)								
		Sqm							
			2x3	6.00		0.23	8.28		
			2x3	1.50		0.23	2.07		
							10.35	310.58	**3214.50**
	Basic Rate	293.00							
	Area Weightage @ 6%	17.58							
	Total	**310.58**							
11	KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for **flat surface** such as suspended floors, roofs, landings, balconies and likes, **thickness upto 200 mm** including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 (Page No. 15/ Item No. 4.18)								
		Sqm							
			3	6.00	1.50		27.00		
							27.00	323.30	**8729.10**
	Basic Rate	305.00							
	Area Weightage @ 6%	18.30							
	Total	**323.30**							
12	Providing and fixing **RCC precast Slabs of 0.10 m thick of CC 1:2:4 with 20 mm** and down size graded granite metal , machine mixed , including cost of all material , labour , HOM of Machinery , curing complete								
	Harohalli Colony	Sqm							
	Main Road for Drain covering		2	256.00	0.90		460.80		
						Total Qty	**460.80**	2100.00	**967680.00**
	Data Rate	**2100.00**							
13	5.29(b)Providing and fixing **pre cast solid cement concrete kerb stones** made out of No.272.21 C.C 1:2:4 with top and bottom width 114 and 165mm repectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork curing, including, cost of all materials, labour hire charges of machinery, loading unloading, lead and lift, transportation etc, complete (P.No.25 /It.No.5.30)								
		No							
			2	256.00		468.00 / 0.45	1137.78		
						Say	**1137.78**	331.78	**377492.00**

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
	Basic Rate	313.00							
	Area Weightage @ 6%	18.78							
	Total	**331.78**							
114	KSRB 15-19.2 :Providing and applying **ready mix priming coat** over concrete/masonry/asbestos cement sheet/plastered surfaces including preparing the surface after throughly cleaning of oil,grease,dirt and other foreign matter and sand papering including cost of materials, labour, complete as per specifications. (Page no.121 / It no.15.80)								
		Sqm							
			2	256.00		0.40	204.80		
						Total Qty	**204.80**	27.56	**5644.00**
	Basic Rate	26.00							
	Area Weightage @ 6%	1.56							
	Total	**27.56**							
115	KSRB 800-1.Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. (Page No.182 & Item No.24.1)								
		Sqm							
					Qty Vide Item No.14		**204.80**	63.60	**13025.00**
	Basic Rate	60.00							
	Area Weightage @ 6%	3.60							
	Total	**63.60**							
116	Miscellaneous and unforeseen charges	LS							**1912.00**
							Grand Total Amount		**5000000.0**

(Rupees Fifty Lakhs Only)

CERTIFICATE

1) The site has been inspected and the work is found to be necessary.
2) The rates adopted are as per PW,P IWTD SR of 2016-17 and data rate of Bangalore Circle.
3) The provisions were made in this estimate are necessary and adequate.
4) The area comes under the Bruhat Bengaluru Mahanagara Palike Limits.
5) This work is not repeated in any other programs or Grants

ADMINISTRATIVELY SANCTIONED FOR Rs. 50.00 lacs.
Rupees Fifty Lakhs.

Assistant Engineer
Ward No.02
Chowdeshwari Ward

Executive Engineer
Yelahanka Division
B.B.M.P

Assistant Executive Engineer
Yelahanka Sub-Division
B.B.M.P

Recommended as EE ( )
Subject to conditions contained in enclosed memo EE ( ) No/ Dt.
Estimate No. JC(Y)/BA/AE/107/17-18.
dated 16.2.2018 for Rs. 50.00 lacs.

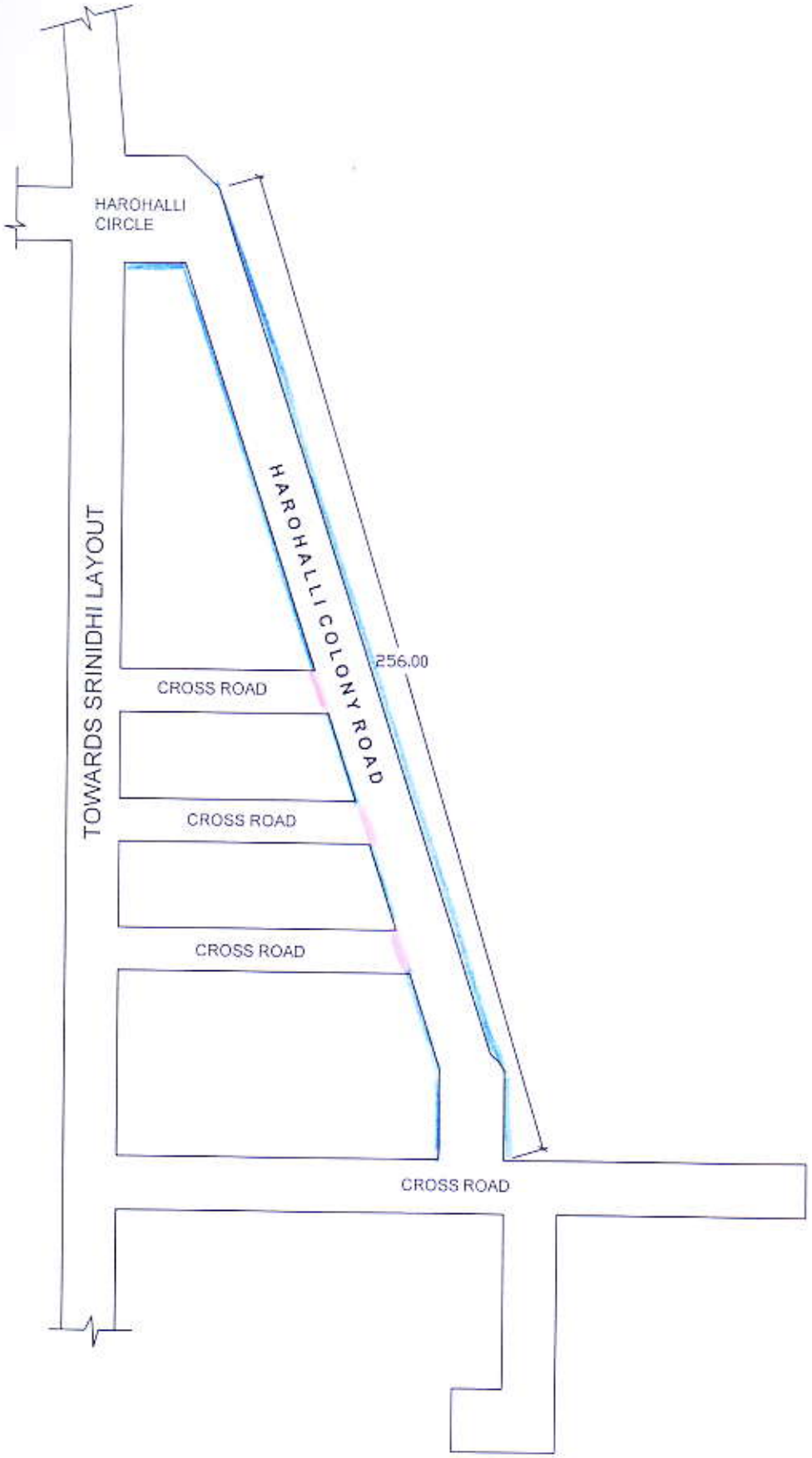
Technical Sanction
Accorded For Fifty lacks only
Head of A/C. 2059
CER NO CE.TS/ 18

Joint Commissioner
(Yelahanka Zone)
BBMP, Bengaluru

CE (YNK)

NAME OF WORK : IMPROVEMENTS TO ROADS AND DRAINS AT HAROHALLI COLONY IN WARD NO.02 OF YELAHANKA SUB-DIVISION

KEY : NOT TO SCALE



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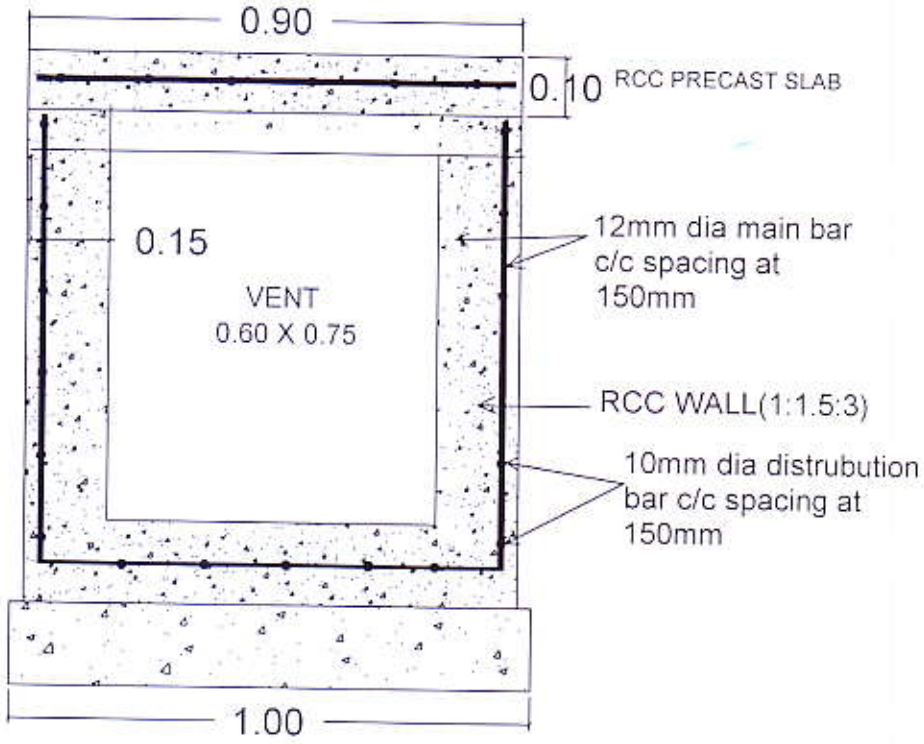
- CC DRAIN
- CULVERTS

Assistant Engineer
Ward No.02
B.B.M.P

Assistant Executive Engineer
Yelahanka Sub-Division
B.B.M.P

NAME OF WORK : IMPROVEMENTS TO ROADS AND DRAINS AT HAROHALLI COLONY IN WARD NO.02 OF YELAHANKA SUB-DIVISION



TYPICAL CROSS SECTION OF RCC DRAIN

AE-02